

Table S2. Sensitivity analysis for mesocosm parameterisations M2 and M3

| Parameter | M2 | | M3 | |
|------------------|-----|-----|-----|-----|
| | -1% | +1% | -1% | +1% |
| r | 0.7 | 2.4 | 0.4 | 0.6 |
| T_{opt} | 1.2 | 1.2 | 0.7 | 0.8 |
| Q_{10} | 2.3 | 1.2 | 0.7 | 0.5 |
| t_1 | 1.5 | 2.6 | 2.0 | 1.6 |
| t_2 | 4.9 | 2.7 | 2.2 | 2.1 |
| α_1 | 0.9 | 1.9 | 0.0 | 0.1 |
| α_2 | 0.2 | 0.1 | 0.3 | 0.2 |

Mean of absolute sensitivities of mean weight of each tank and each sampling date. Sensitivity is percentage change in output per percentage change in parameter, here for $\pm 1\%$ change in parameter.

r , individual growth rate (day^{-1}); Q_{10} , temperature coefficient ($^{\circ}\text{C}^{-1}$); T_{opt} , optimum temperature ($^{\circ}\text{C}$); t_1 (days), t_2 (days), α_1 and α_2 all shape parameter for food response.